

## Pulp - Task #3505

### The vagrant environment should use Postgres as a DB

03/20/2018 08:43 PM - dalley

<b>Status:</b>	MODIFIED	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	daviddavis	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0:00 hour
<b>Sprint/Milestone:</b>	3.0	<b>QA Contact:</b>	
<b>Platform Release:</b>		<b>Complexity:</b>	
<b>Blocks Release:</b>		<b>Smash Test:</b>	
<b>Backwards Incompatible:</b>	No	<b>Verified:</b>	No
<b>Groomed:</b>	Yes	<b>Verification Required:</b>	No
<b>Sprint Candidate:</b>	Yes	<b>Sprint:</b>	Sprint 36
<b>Tags:</b>	Dev Environment		

#### Description

Justification is written here: <https://www.redhat.com/archives/pulp-dev/2018-April/msg00204.html>

Sqlite falls over very quickly when loaded. Despite the recent change to add a 20 second timeout, Pulp still frequently gets "OperationalError: database is locked" errors when handling a couple dozen to a couple hundred packages, with the likelihood of a sync failure due to db lock being almost 100% after about 300 packages.

This is immediately apparent with the Python plugin, which downloads every release package for a provided project name by default.

In practical terms, syncing the "Django" and "pulpcore" projects works about half the time, and syncing "Django", "pulpcore", and "scipy" usually fails.

This makes developing some plugins, such as the Python plugin, particularly difficult. We can keep sqlite support for **very** simple plugin development but we shouldn't leave it the default in our own development environment.

#### Related issues:

Related to Pulp - Issue #3456: OperationalError: database is locked

**CLOSED - WONTFIX**

#### Associated revisions

**Revision 09fe3dfe - 04/26/2018 02:24 AM - daviddavis**

Revert "Adding sqlite binary to dev env"

This reverts commit fe68c0a850ffe0d7361ae5956bebd5ac886fe9b.

fixes #3505

<https://pulp.plan.io/issues/3505>

#### History

**#1 - 03/20/2018 08:45 PM - dalley**

- Sprint Candidate changed from No to Yes

**#2 - 03/20/2018 08:47 PM - dalley**

- Related to Issue #3456: OperationalError: database is locked added

**#3 - 04/04/2018 11:10 PM - bmbouter**

With the PR for 3456 being merged I don't think sqlite is emitting OperationDatabaseLocked anymore.

<https://github.com/pulp/pulp/pull/3405>

**#4 - 04/05/2018 04:00 PM - dalley**

I still think we should make the change because developers doing hand testing may need to run very heavy loads in the process of debugging certain issues.

**#5 - 04/05/2018 05:01 PM - bmbouter**

- *Tags Dev Environment added*

- *Tags deleted (Pulp 3 MVP, Pulp 3 installer)*

Couldn't it be more frustrating if a workload runs well in the dev environment, but fails on Travis due to sqlite CI? I think having it fail directly in front of the developer would actually be better.

Retagging to match that this issue is specific to a Pulp3 dev environment.

**#6 - 04/05/2018 05:06 PM - dalley**

I think it's still the other way around because it's much easier to switch from postgres to sqlite than to switch from sqlite to postgres.

And if we reach a point where our \*\* smoke tests are failing on sqlite due to sqlite limitations rather than logic flaws, we should seriously reconsider supporting sqlite to begin with.

**#7 - 04/05/2018 06:03 PM - bmbouter**

Each time we've hit a problem with sqlite it's been an opportunity for us to improve Pulp's ability to run in more places. With the recent sqlite timing changes, I don't know of any current workflows that raise OperationalError. If Pulp+sqlite is broken somehow and it is unfixable that would be very useful info.

**#8 - 04/19/2018 06:33 PM - dkliban@redhat.com**

The problem seems to be that even though SQLite supports a better concurrency model<sup>0</sup> already, Django does not take advantage of it<sup>1</sup>.

The Django issue has a suggestion<sup>2</sup> to use the 'connection\_created' signal to make Pulp use sqlite with the WAL mode. We should probably do exactly that.

[0] <http://www2.sqlite.org/wal.html>

[1] <https://code.djangoproject.com/ticket/24018>

[2] <https://stackoverflow.com/questions/4534992/place-to-set-sqlite-pragma-option-in-django-project/6843199#6843199>

**#9 - 04/25/2018 10:46 PM - bmbouter**

- *Description updated*

We need to switch back to postgresSQL. I outlined the reasons why here: <https://www.redhat.com/archives/pulp-dev/2018-April/msg00204.html>

**#10 - 04/26/2018 02:23 AM - daviddavis**

- Status changed from NEW to POST
- Groomed changed from No to Yes
- Sprint set to Sprint 36

<https://github.com/pulp/devel/pull/151>

**#11 - 04/26/2018 06:44 PM - daviddavis**

- Status changed from POST to MODIFIED
- % Done changed from 0 to 100

Applied in changeset [devel|09fe3dfe218aac3d401bbd31d250e6ece2459aa7.](#)

**#12 - 05/12/2018 05:13 AM - dalley**

- Assignee set to daviddavis

**#13 - 04/25/2019 06:45 PM - daviddavis**

- Sprint/Milestone set to 3.0

**#14 - 04/26/2019 10:36 PM - bmbouter**

- Tags deleted (Pulp 3)